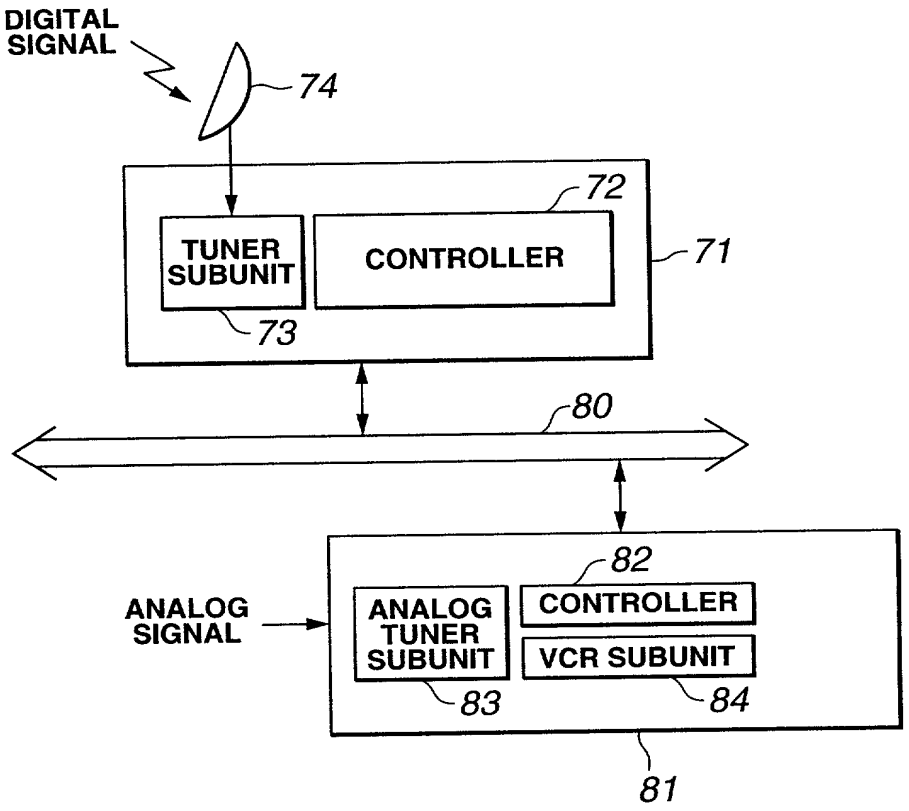
DIGITAL SIGNAL
74
72
TUNER SUBUNIT
CONTROLLER
71
73
80
82
ANALOG SIGNAL
ANALOG TUNER SUBUNIT
CONTROLLER
VCR SUBUNIT
83
84
81

FIG.1

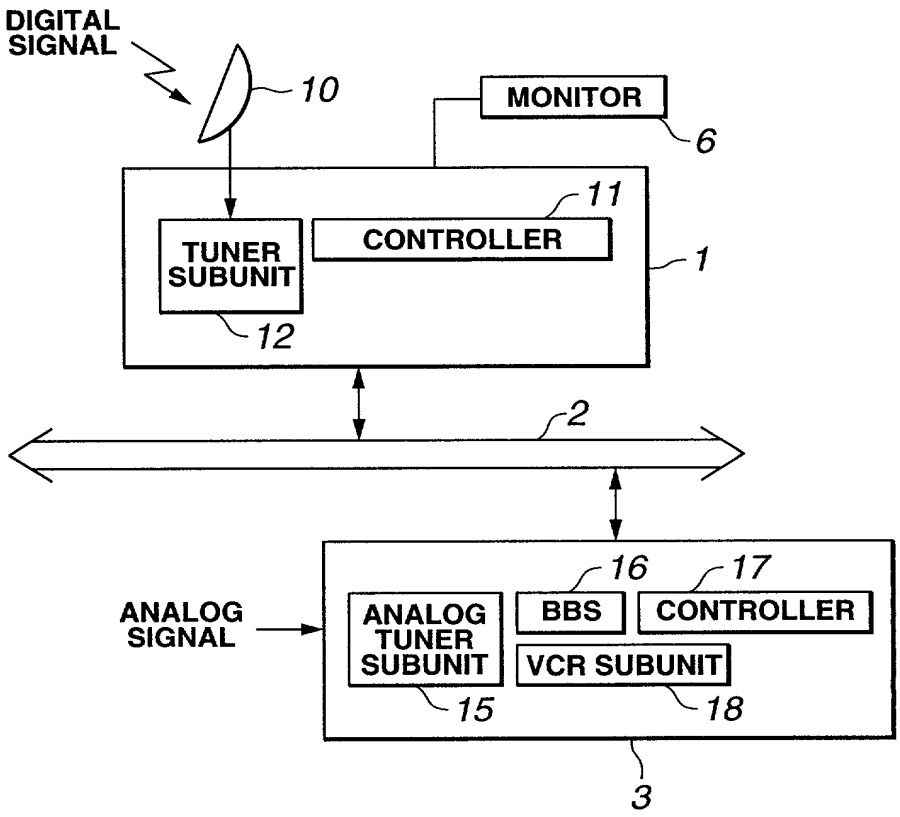
DIGITAL SIGNAL
10
MONITOR
6
11
CONTROLLER
TUNER SUBUNIT
12
1
2
16
17
BBS
CONTROLLER
ANALOG SIGNAL
ANALOG TUNER SUBUNIT
VCR SUBUNIT
15
18
3

FIG.2

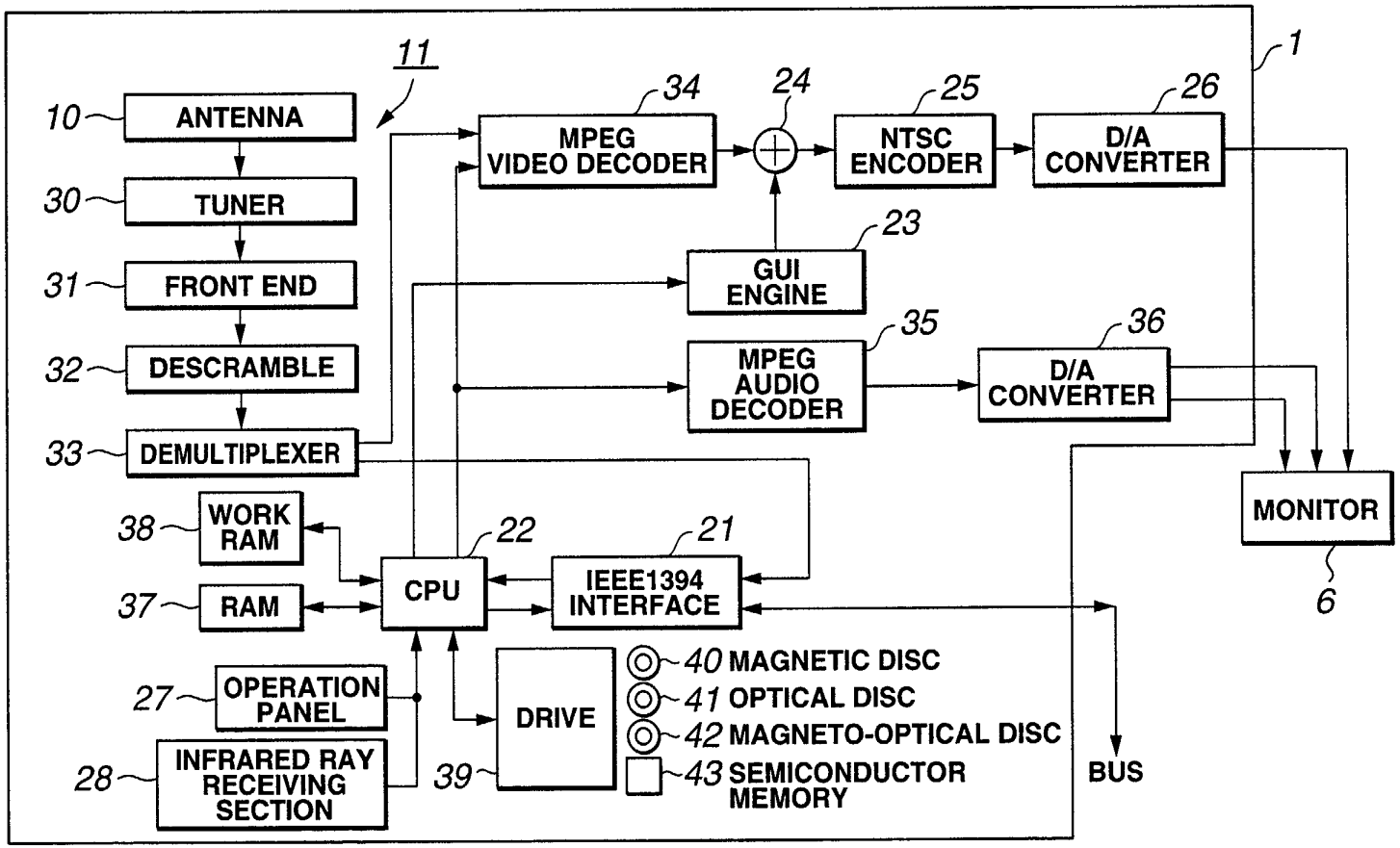
11
1
10
ANTENNA
30
TUNER
31
FRONT END
32
DESCRAMBLE
33
DEMULTIPLEXER
34
MPEG VIDEO DECODER
24
25
NTSC ENCODER
26
D/A CONVERTER
23
GUI ENGINE
35
MPEG AUDIO DECODER
36
D/A CONVERTER
MONITOR
6
38
WORK RAM
37
RAM
22
CPU
21
IEEE1394 INTERFACE
27
OPERATION PANEL
28
INFRARED RAY RECEIVING SECTION
39
DRIVE
40 MAGNETIC DISC
41 OPTICAL DISC
42 MAGNETO-OPTICAL DISC
43 SEMICONDUCTOR MEMORY
BUS

FIG.3

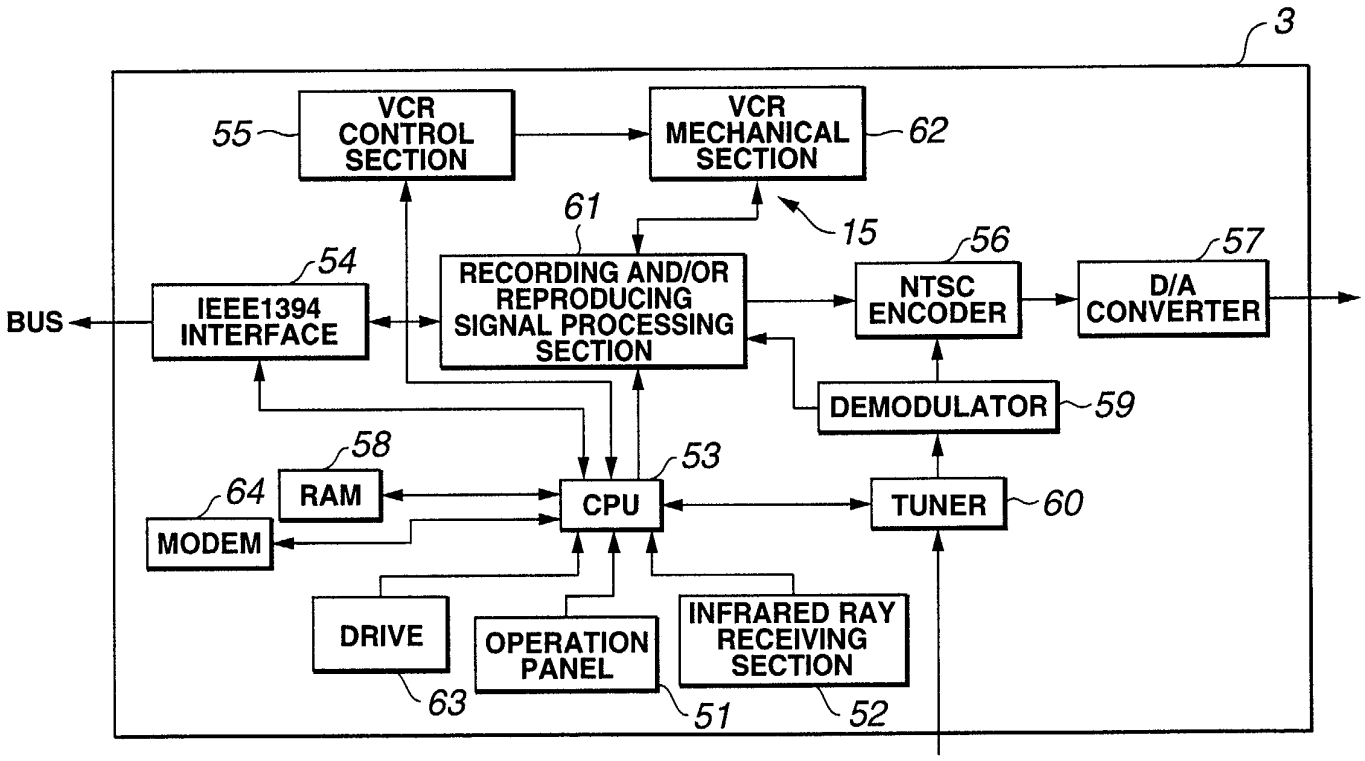

FIG.4

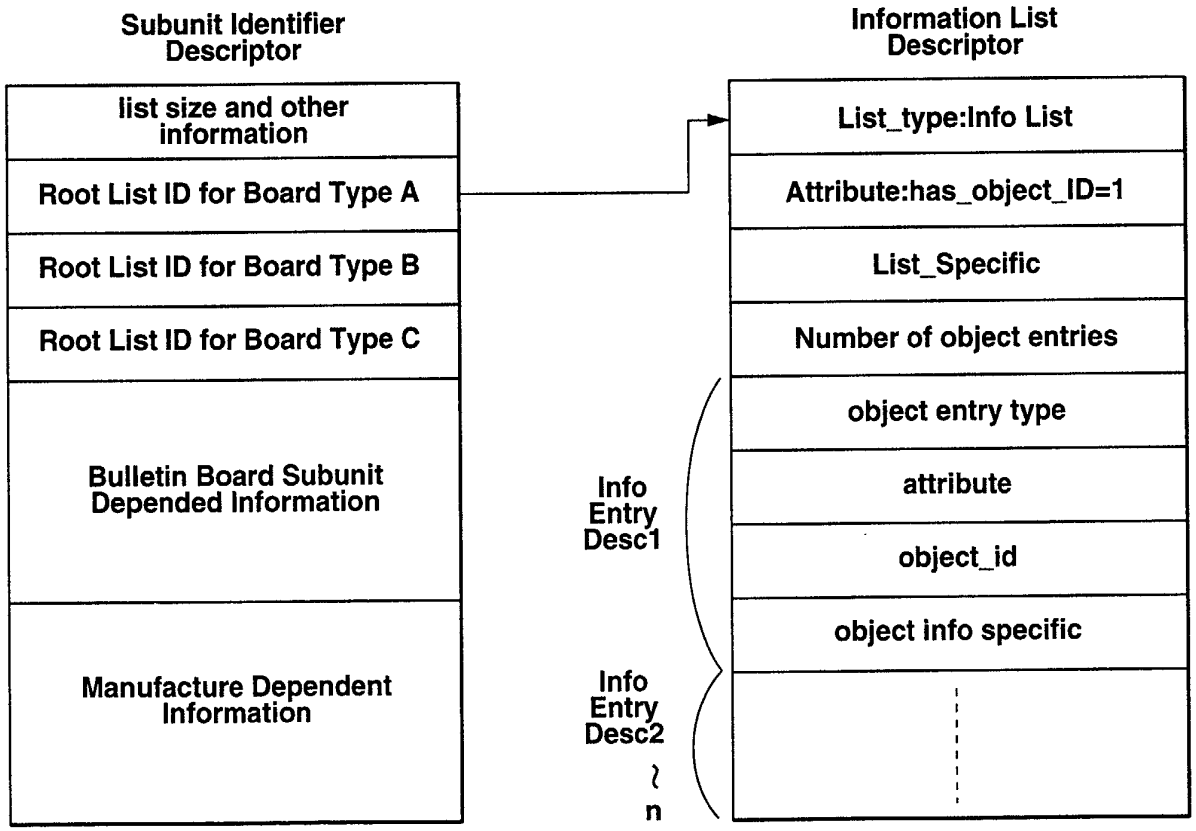

FIG.5

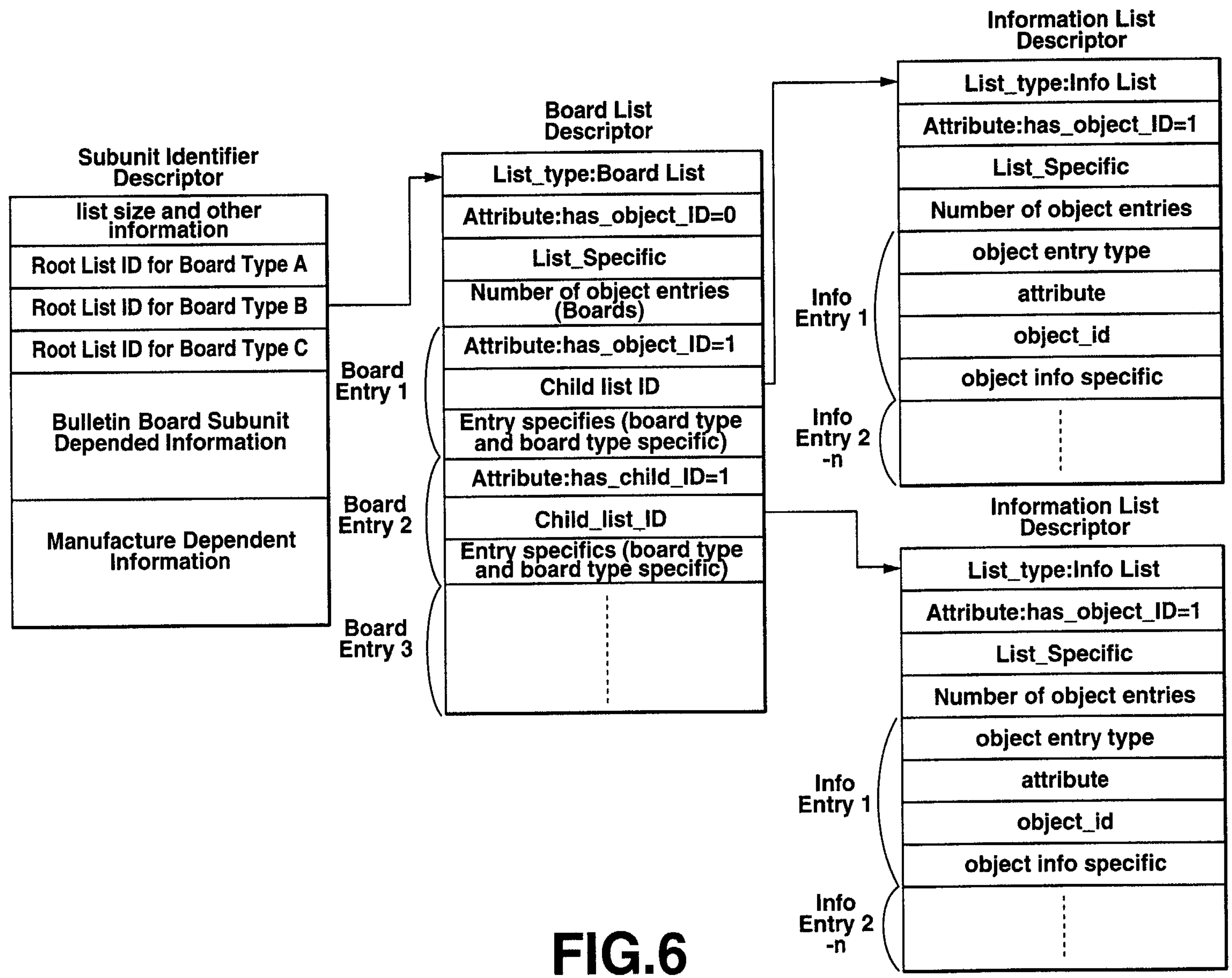

FIG.6

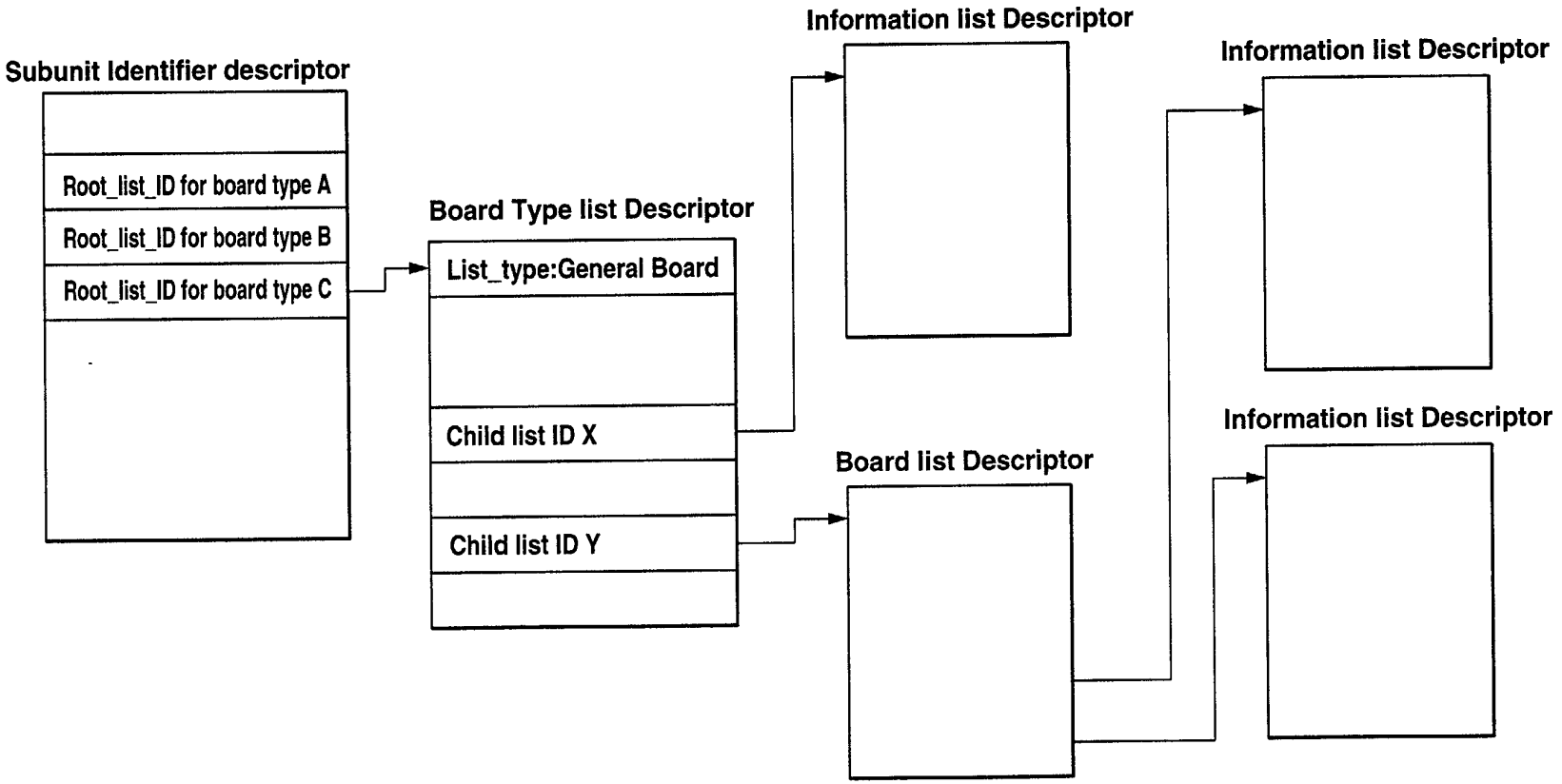
Subunit Identifier descriptor
Root_list_ID for board type A
Root_list_ID for board type B
Root_list_ID for board type C
Board Type list Descriptor
List_type:General Board
Child list ID X
Child list ID Y
Information list Descriptor
Information list Descriptor
Board list Descriptor
Information list Descriptor

FIG.7

Address_offset	Contents
$00\ 00_{16}$	descriptor_length
$00\ 01_{16}$	
$00\ 02_{16}$	list_type:Board Type List
$00\ 03_{16}$	attributes
$00\ 04_{16}$	size_of_list_specific_information
$00\ 05_{16}$	
$00\ 06_{16}$	list_specific_information
:	
:	
:	number_of_entries(n)
:	
$00\ 00_{16}$	descriptor_length
$00\ 01_{16}$	
$00\ 02_{16}$	entry_type(Board Type)
$00\ 03_{16}$	attributes
$00\ 04_{16}$	child_list_ID
$00\ 05_{16}$	(List ID OF Board Type TO BE ADDED ANEW)
$00\ 06_{16}$	size_of_entry_specific_information
$00\ 07_{16}$	
$00\ 08_{16}$	Board Type TO BE GENERATED
:	entry_specific_information
:	
:	:
:	object_entry[n-1]
:	
:	

OBJECT ENTRY [0] FOR SPECIFYING A GIVEN BOARD TYPE

FIG.8

Address_offset	Contents
00_{16}	non_info_block_fields_length
01_{16}	
02_{16}	board_type
03_{16}	object_list_maximum_size
04_{16}	
05_{16}	object_entries_maximum_number
06_{16}	
07_{16}	board_type_dependent_information_length
08_{16}	
09_{16}	board_type_dependent_information
:	
:	
:	optional info blocks for future expansion
:	
:	

FIG.9

Range of values	List definition
0000_{16}-1000_{16}	Reserved in AV/C Digital Interface Command Set General Specification version 3.0
1001_{16}-$10FF_{16}$	Root list ID, assigned for each board type
1100_{16}-$1FFF_{16}$	Reserved
2000_{16}-$3FFF_{16}$	Child list ID, assigned by the Bulletin Board Subunit
4000_{16}-$FFFF_{16}$	Reserved in AV/C Digital Interface Command Set General Specification version 3.0

FIG.10

Value	Entry type
00_{16}-$7F_{16}$	Reserved for general definitions
80_{16}	Bulletin Board
81_{16}	Information
82_{16}-FF_{16}	Reserved

FIG.11

Value	Board type
00_{16}	Reserved
01_{16}	Resource Schedule Board
02_{16}-FF_{16}	Reserved for future specification

FIG.12

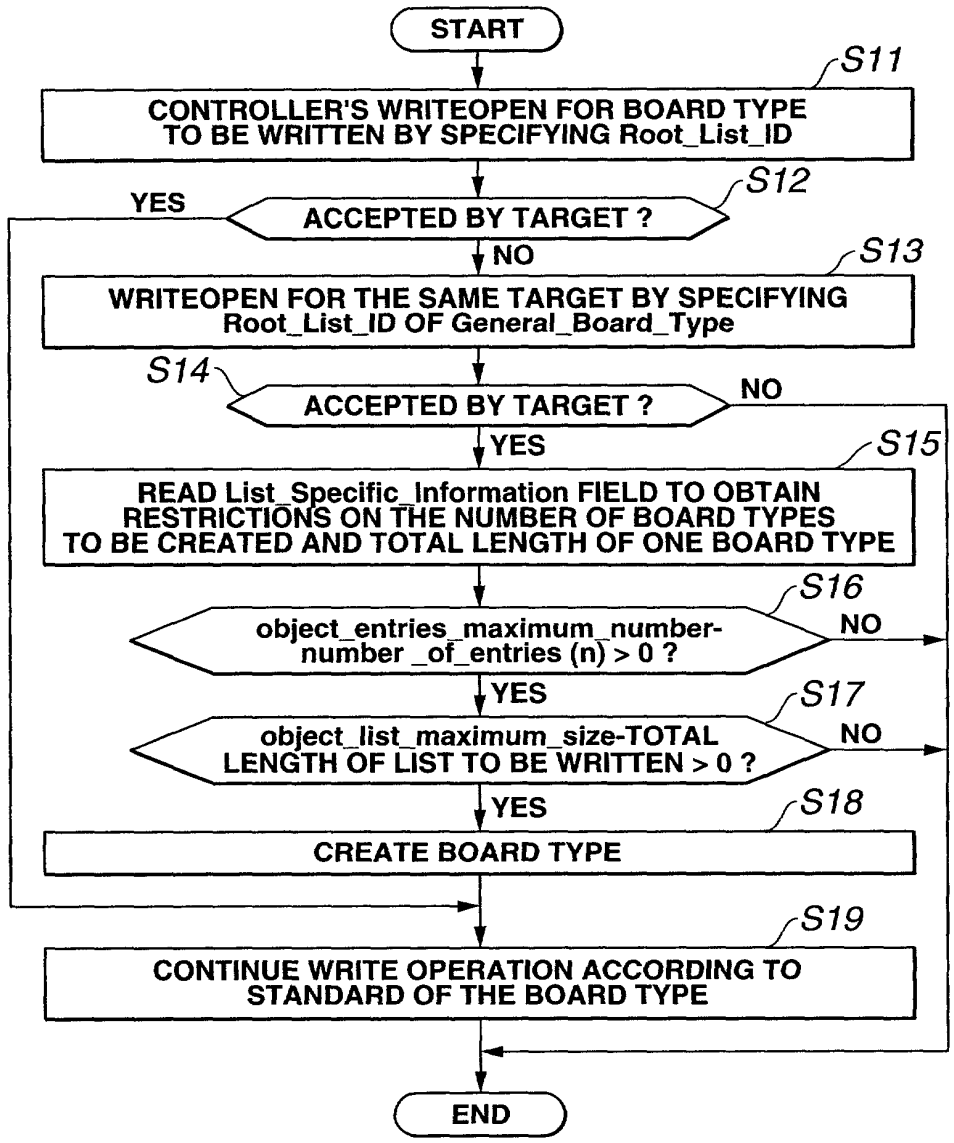
START
S11
CONTROLLER'S WRITEOPEN FOR BOARD TYPE TO BE WRITTEN BY SPECIFYING Root_List_ID
S12
YES
ACCEPTED BY TARGET ?
NO
S13
WRITEOPEN FOR THE SAME TARGET BY SPECIFYING Root_List_ID OF General_Board_Type
S14
ACCEPTED BY TARGET ?
NO
YES
S15
READ List_Specific_Information FIELD TO OBTAIN RESTRICTIONS ON THE NUMBER OF BOARD TYPES TO BE CREATED AND TOTAL LENGTH OF ONE BOARD TYPE
S16
object_entries_maximum_number-number _of_entries (n) > 0 ?
NO
YES
S17
object_list_maximum_size-TOTAL LENGTH OF LIST TO BE WRITTEN > 0 ?
NO
YES
S18
CREATE BOARD TYPE
S19
CONTINUE WRITE OPERATION ACCORDING TO STANDARD OF THE BOARD TYPE
END

FIG.13

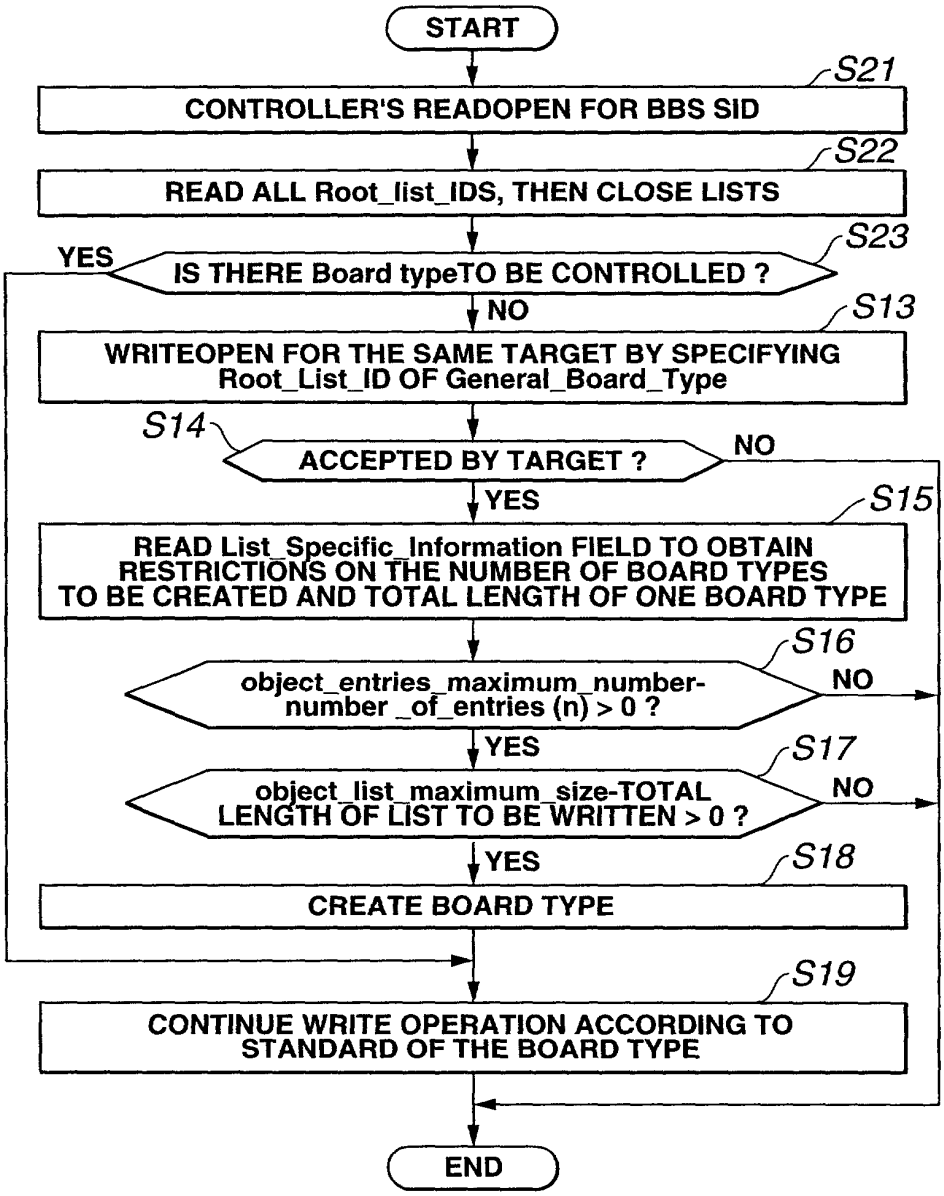
START
S21
CONTROLLER'S READOPEN FOR BBS SID
S22
READ ALL Root_list_IDS, THEN CLOSE LISTS
S23
YES
IS THERE Board typeTO BE CONTROLLED ?
NO
S13
WRITEOPEN FOR THE SAME TARGET BY SPECIFYING Root_List_ID OF General_Board_Type
S14
ACCEPTED BY TARGET ?
NO
YES
S15
READ List_Specific_Information FIELD TO OBTAIN RESTRICTIONS ON THE NUMBER OF BOARD TYPES TO BE CREATED AND TOTAL LENGTH OF ONE BOARD TYPE
S16
object_entries_maximum_number-number _of_entries (n) > 0 ?
NO
YES
S17
object_list_maximum_size-TOTAL LENGTH OF LIST TO BE WRITTEN > 0 ?
NO
YES
S18
CREATE BOARD TYPE
S19
CONTINUE WRITE OPERATION ACCORDING TO STANDARD OF THE BOARD TYPE
END

FIG.14

opcode	OPEN DESCRIPTOR
operand 0	descriptor_type
operand 1	List ID
operand 2	List ID
operand 3	subfunction WRITE OPEN
operand 4	reserved

FIG.15

	msb							lsb
opcode	READ DESCRIPTOR							
operand 0	descriptor identifier							
operand 1	:							
:	:							
:	read_result_status							
:	reserved							
:	data_length							
:	address							

FIG.16

	msb							lsb
opcode	CREATE DESCRIPTOR							
operand[0]	result							
operand[1]	subfunction_1							
operand[2]	reserved							
operand[3]	subfunction_1_specification							
:								
:								

FIG.17

response frame type	value	result code name	meaning
ACCEPTED	00_{16}	success	Successful completion
	all other values		reserved for future specification
REJECTED	FF_{16}	unknown	an unknown error occurred
	all other values		reserved for future specification

FIG.18

subfunction_1_specification for subfunction_1=00_{16}								
	msb							lsb
operand[3]	descriptor_identifier_where							
	descriptor_identifier_what							

FIG.19

descriptor_type of descriptor_identifier_ where	descriptor_type of descriptor_identifier_ what	meaning
00_{16}	11_{16}	Create a root list The list_type is specified by descriptor_identifier_what.
20_{16}	11_{16}	Create a child list. Create a new list as a child or the object specified by descriptor_identifier_where. The new list_type is specified by descriptor_identifier_what.
20_{16}	22_{16}	Create an object. Create a new object and place it in the position specified by descriptor_identifier_where. The entry_type is specified by descriptor_identifier_what.
all other values		reserved for future specification.

FIG.20

subfunction_1_specification for subfunction_1=01_{16}								
	msb							lsb
operand[3]	descriptor_identifier_where							
:								
:								
:	descriptor_identifier_what_1							
:								
:								
:	descriptor_identifier_what_2							
:								
:								

FIG.21

descriptor_type of descriptor_identifier_ where	descriptor_type of descriptor_identifier_ what_1	descriptor_type of descriptor_identifier_ what_2	meaning
20_{16}	22_{16}	11_{16}	Create an object and its child list. create the new object and place it in the location specified by where. The entry_type is specified by what_1. Also create a new list as the child of the new object. The list_type is specified by what_2.
all other values			reserved for future specification

FIG.22

opcode	OPEN DESCRIPTOR
operand 0	descriptor_type
operand 1	List ID
operand 2	List ID
operand 3	subfunction CLOSE
operand 4	reserved

FIG.23

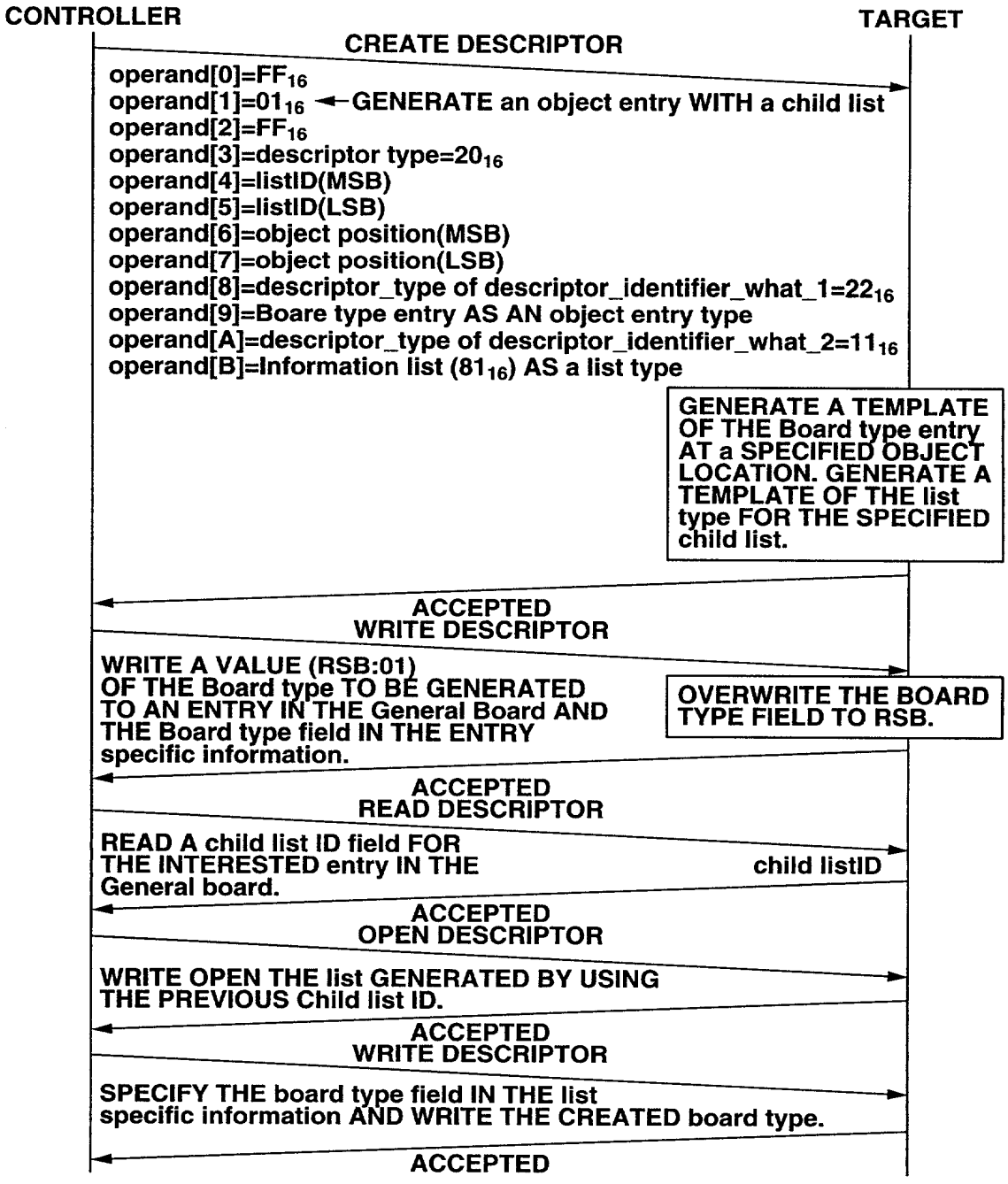
CONTROLLER
TARGET
CREATE DESCRIPTOR
operand[0]=FF16
operand[1]=0116 ←GENERATE an object entry WITH a child list
operand[2]=FF16
operand[3]=descriptor type=2016
operand[4]=listID(MSB)
operand[5]=listID(LSB)
operand[6]=object position(MSB)
operand[7]=object position(LSB)
operand[8]=descriptor_type of descriptor_identifier_what_1=2216
operand[9]=Boare type entry AS AN object entry type
operand[A]=descriptor_type of descriptor_identifier_what_2=1116
operand[B]=Information list (8116) AS a list type
GENERATE A TEMPLATE OF THE Board type entry AT a SPECIFIED OBJECT LOCATION. GENERATE A TEMPLATE OF THE list type FOR THE SPECIFIED child list.
ACCEPTED
WRITE DESCRIPTOR
WRITE A VALUE (RSB:01) OF THE Board type TO BE GENERATED TO AN ENTRY IN THE General Board AND THE Board type field IN THE ENTRY specific information.
OVERWRITE THE BOARD TYPE FIELD TO RSB.
ACCEPTED
READ DESCRIPTOR
READ A child list ID field FOR THE INTERESTED entry IN THE General board.
child listID
ACCEPTED
OPEN DESCRIPTOR
WRITE OPEN THE list GENERATED BY USING THE PREVIOUS Child list ID.
ACCEPTED
WRITE DESCRIPTOR
SPECIFY THE board type field IN THE list specific information AND WRITE THE CREATED board type.
ACCEPTED

FIG.24

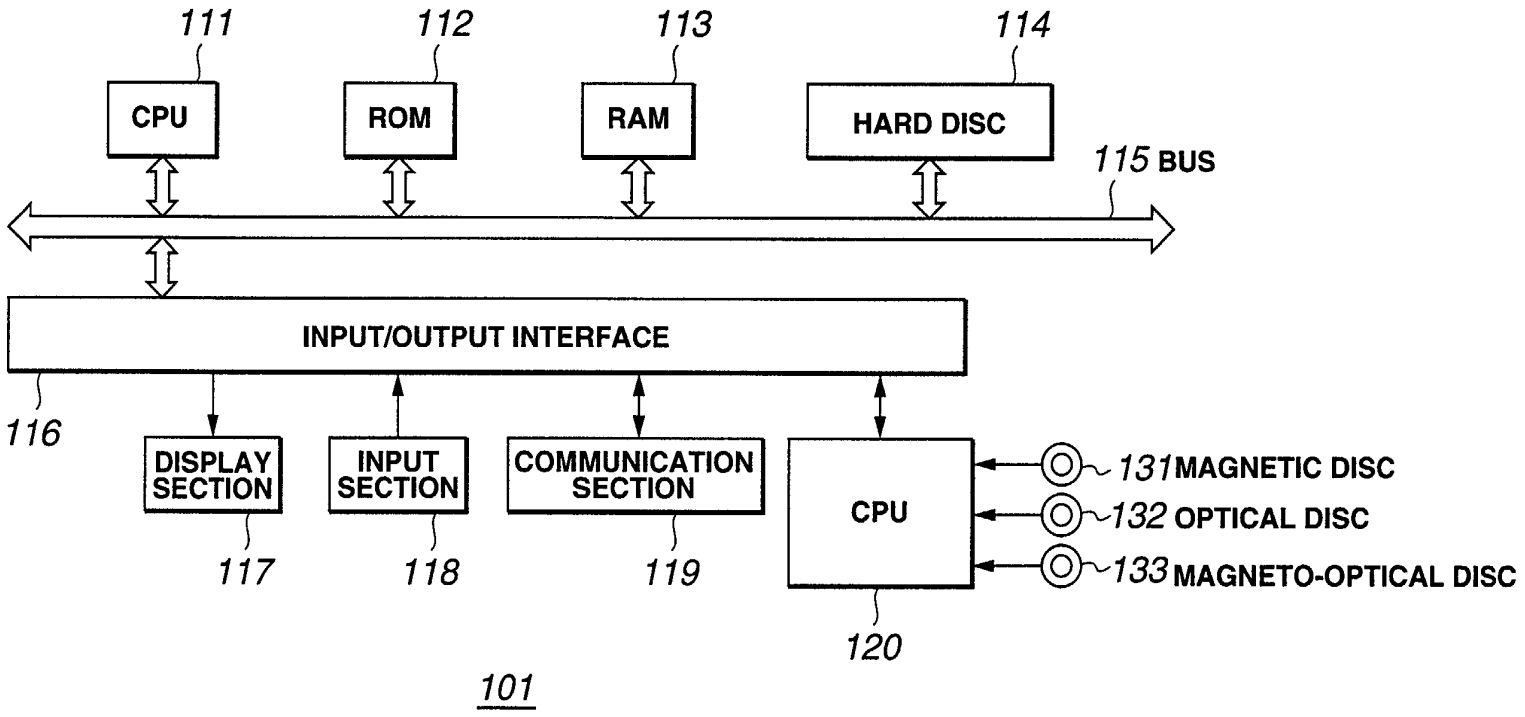

FIG.25